

DERWENT-ACC-NO: 2003-236631

DERWENT-WEEK: 200323

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TITLE: Flat color cathode ray tube with light weight

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PATENT-ASSIGNEE: LG ELECTRONICS INC[GLDS]

PRIORITY-DATA: 2001KR-0016974 (March 30, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2002076830 A	October 11, 2002	N/A	001	H01J 029/02

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
KR2002076830A	N/A	2001KR-0016974	March 30, 2001

INT-CL (IPC): H01J029/02

ABSTRACTED-PUB-NO: KR2002076830A

BASIC-ABSTRACT:

NOVELTY - A flat color CRT is provided to minimize changes of components including a deflection yoke, shadow mask and an electron gun by reducing length of skirt portion of panel.

DETAILED DESCRIPTION - A flat color CRT comprises a panel having a flat outer surface, an inner surface with a predetermined curvature and a skirt extended in a vertical direction from the inner and outer surfaces; a yoke portion for mounting a deflection yoke; and a funnel coupled with the skirt of the panel. When the effective area of picture has two lines crossing at right angles, and the two lines have lengths of M and N, satisfying the expression $M(\text{plus})N/\text{square}(M^2(\text{plus})N^2)$ at least 1.38. The diagonal effective area of picture has a size larger than 50.8cm. When the shortest distance from the extended plane passing an end of the panel side of the yoke portion vertical to the tube axis to the extended plane passing the panel and funnel assembly vertical to the tube axis is LF-TOR, and the shortest distance from the center of outer surface of the panel to the extended plane passing the panel and funnel assembly vertical to the tube axis is LP-OAH, the expression $0.44 \text{ less than } LP\text{-}OAH/ LF\text{-}TOR$ at most 0.65 is satisfied.

